Clarke®

CONTRACTOR®

1050W ANGLE GRINDER

Model No. CON1050

PART NO: 6470142

OPERATING & MAINTENANCE INSTRUCTIONS

CE

GC0611

INTRODUCTION

Thank you for purchasing this CLARKE Angle Grinder.

Before attempting to use the machine, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

ENVIRONMENTAL PROTECTION

Do not dispose of this product with general household waste. It must be disposed of according to the laws governing Waste Electrical and Electronic Equipment at a recognised disposal facility.

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GENERAL SAFETY RULES

WORK AREA

1. **Keep the work area clean and well lit.** Cluttered and dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres such as in the presence of flammable liquids, gasses or dust.** Power tools create sparks which may ignite dust or fumes.
3. **Keep children and bystanders away while operating a power tool**. Distractions can cause you to loose control.

ELECTRICAL SAFETY

1. **Power tools must match the power outlet. Never modify the plug in any way. Do not use adaptor plugs with earthed (grounded) power tools.** Correct plugs and outlets will reduce the risk of electric shock.
2. **Do not expose power tools to rain or wet conditions.** Any water entering power tools will increase the risk of electric shock.
3. **Do not abuse the electrical cable. Never use the cord for pulling or unplugging the power tool. Keep the cable away from sources of heat, oil, sharp edges or moving parts**. Damaged or tangled cables increase the risk of electric shock.
4. **When operating a power tool outdoors, use an extension cable suitable for outdoor use.** Using the correct cable reduces the risk of electric shock.

PERSONAL SAFETY

1. **Stay alert, watch what you are doing and use common sense when you are operating a power tool.** Do not operate a power tool when you are tired, ill or under the influence of alcohol, drugs or medication.
2. **Wear personal protective equipment including eye protection.** Safety equipment such as a dust mask, non-skid shoes or hearing protection used for appropriate conditions will reduce personal injuries. Use a face or dust mask if operation is particularly dusty. Wear ear protectors/defenders as the noise level of this machine can exceed 85dB (A). If working at floor level, always wear knee pads.
3. **Do not over-reach.** Keep your proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
4. **Avoid accidental starting of the machine.** Ensure the switch is in the off position and the locking button disengaged before plugging the machine in to the power supply. Carrying power tools around with your finger on the trigger or plugging in power tools that are switched on invites accidents.

5. **Dress properly.** Do not wear loose clothing or jewellery which may get caught in moving parts. Wear protective hair covering to contain long hair. For best footing, wear rubber soled footwear. Keep floor clear of oil, scrap wood, etc.
6. Concentrate on the job in hand, no matter how trivial it may seem. Be aware that accidents are caused by carelessness due to familiarity.
7. Switch the machine OFF immediately after the task is completed.

POWER TOOL USE AND CARE

1. **Do not force the machine.** Use the correct power tool for your application. It will do a better and safer job at the rate for which it was designed.
2. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
3. **Disconnect the power tool from the power supply before making any adjustments, changing accessories, or storing the tool**. These measures will reduce the risk of the power tool starting accidentally.
4. **Store power tools out of the reach of children and do not allow persons unfamiliar with these instructions to operate the power tool**. Power tools are potentially dangerous in the hands of untrained users.
5. **Maintain power tools in top condition.** Keep tools/ machines clean for the best and safest performance. Check for misalignment or binding of moving parts, broken parts, or any condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
6. **Use recommended accessories.** The use of improper accessories could be hazardous.
7. **Machine cleanliness.** Do not allow the ventilation slots in the machine to become blocked with dust.
8. **Check the power tool for damage before using the machine.** Any damaged part should be inspected to ensure that it will operate properly and perform its intended function. Check for alignment of moving parts, breakage of parts, mountings, and any other condition that may affect the machine's operation. Any damage should be properly repaired or the part replaced. If in doubt, **DO NOT** use the machine. Consult your local dealer.

SERVICE

1. **When necessary, have your power tools serviced or repaired by a qualified person using identical replacement parts.** This will ensure that the safety of the power tool is maintained.

ANGLE GRINDER SAFETY INSTRUCTIONS

1. Before starting work, always consider that the use of hand held angle grinders for grinding and cutting operations can present risks to the user. Full observation of the safety instructions in this user guide is essential.
2. Always use the correct tool for the job. Never force a small angle grinder to do the job of a heavy tool. Do not use tools for purposes not intended.
3. Always allow the angle grinder to run up to full operating speed before applying it to the job.
4. Stop the angle grinder at regular intervals for a short break to rest hands and arms.
5. Never bump the angle grinder disc on the workpiece, or let the disc hit any other objects while grinding.
6. Suitable eye and face protection must be worn when using an angle grinder. Always wear a dust mask.
7. Never carry the tool by the mains lead or pull it to disconnect it from the mains socket. Keep the mains lead away from heat, oil and sharp edges.
8. Use clamps or vices to hold the workpiece. Failure to secure the workpiece could result in serious injury.
9. Keep all handles and grips dry and clean.
10. **Use outdoor extension leads.** If working outdoors, always use an approved cable extension suitable for the power rating of this tool (see specifications), the conductor size should also be at least the same size as that on the machine, or larger. When using a cable reel, always unwind the cable completely. We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD).
11. **Use of the mains cable.** Keep the mains cable well away from the disc and ensure an adequate electrical supply is close at hand so that the operation is not restricted by the length of the cable.
12. A guard or other part that is damaged should be properly repaired or replaced, by an authorised service centre, unless otherwise indicated in this user guide. Have defective switches replaced by an authorised service facility.
13. Ensure all wheels and discs are fitted in accordance with the instructions.
14. When switching off, the disc will continue to rotate for a few seconds after the angle grinder is switched off. Always wait until the disc has completely stopped before putting the angle grinder down.
15. Always hold the angle grinder with both hands. Ensure that the workpiece is kept at waist height where possible. Never use the angle grinder between the legs whilst sitting on the floor.

16. Do not allow bystanders (children or adults) to be nearby when using an angle grinder.
17. Ensure that sparks and particles resulting from grinding do not create a hazard. Use screens where appropriate.
18. Do not use the angle grinder without the disc guard. Make sure that the guard is securely fitted before operating the angle grinder.
19. For cutting, always feed the disc into the work so that an upcutting action is achieved.
20. Do not operate the spindle lock while the spindle is still spinning.

DISC SAFETY INSTRUCTIONS

1. Check the speed of the disc before fitting. Never use a disc with a rated speed less than the no-load speed of your angle grinder. Only use discs that comply with EN12413. See Specifications on page 14. Check that the speed marked on the wheel is compatible with the grinder and that discs are specifically for hand held angle grinder use.
2. Inspect the disc before fitting. Never use a disc that is chipped, cracked or damaged. Fragments from a broken or damaged disc can cause serious injury. Make sure that defective discs are destroyed and not used.
3. Bonded abrasive products are breakable and must therefore be handled with utmost care. The use of damaged or improperly mounted or used abrasive products is dangerous and can cause serious injuries.
4. Always refer to the label for specified usage and observe the safety information. Do not use for purposes other than specified. Discs for wet cutting applications must not be used with this angle grinder.
5. Always use the correct disc for it's intended task. Using the incorrect disc can cause serious injury.
6. Allow the disc and tool to do the work. Never force the disc onto the workpiece as this could cause kickback and/or shatter the disc causing serious injury. Kickback can occur in the event of a disc jam.
7. Do not use cutting discs for side grinding. Do not put sideways pressure on cutting discs.
8. Do not use separate reducing bushes or adapters to adapt large hole abrasive wheels. Do not force a disc onto a machine or alter the size of the arbor hole**.**
9. Abrasive products shall be handled and transported with care. Abrasive products shall be stored in such a manner that they are not subjected to mechanical damage and harmful environmental influences. It is recommended that discs are stored in the case provided to protect them from damage and hazardous materials.

Please keep these instructions in a safe place for future reference.

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ELECTRICAL CONNECTIONS

WARNING! Read these electrical safety instructions thoroughly before connecting the product to the mains supply.

Before switching the product on, make sure that the voltage of your electricity supply is the same as that indicated on the rating plate. This product is designed to operate on 230VAC 50Hz. Do not connect it to any other power source.

This product may be fitted with a non-rewireable plug. If it is necessary to change the fuse in the plug, the fuse cover must be refitted. If the fuse cover becomes lost or damaged, the plug must not be used until a suitable replacement is obtained.

If the plug has to be changed because it is not suitable for your socket, or due to damage, it should be cut off and a replacement fitted, following the wiring instructions shown below. The old plug must be disposed of safely, as insertion into a mains socket could cause an electrical hazard.

WARNING! The wires in the power cable of this product are coloured in accordance with the following code:

Blue = Neutral **Brown = Live**

If the colours of the wires in the power cable of this product do not correspond with the terminal markings of your plug, proceed as follows.

- **The wire which is coloured** Blue **must be connected to the terminal which is marked** N **or coloured** Black**.**
- **The wire which is coloured** Brown **must be connected to the terminal which is marked** L **or coloured** Red**.**

Plug must be BS1363/A approved.

Always fit a 13 Amp fuse.

Neutral (Blue)

Live (Brown)

Ensure that the outer sheath of the cable is firmly held by the clamp

We strongly recommend that this product is connected to the mains supply via a Residual Current Device (RCD).

If in doubt, consult a qualified electrician. DO NOT attempt repairs yourself.

This symbol indicates that this is a Class II product and does not require an earth connection.

OVERVIEW

When unpacking, check for damage or shortages etc. Any found should be reported to your CLARKE dealer where the appliance was originally purchased. This CON1050 is supplied with the following components:

- 1 x Disc Guard
- 1 x Grinding Disc
- 1 x Pin Spanner
- 1 x Side Handle

No	Description
1	Trigger
2	Disc Guard
3	Grinding/Cutting Disc
4	Side Handle

No	Description
5	Spindle Lock Button
6	Trigger Safety Lock Button
7	Air Vents

BEFORE USE

FITTING / ADJUSTING THE DISC GUARD

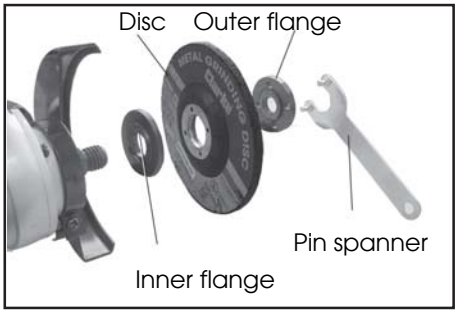
WARNING: ENSURE THAT THE GRINDER IS SWITCHED OFF AND UNPLUGGED FROM THE MAINS SUPPLY BEFORE FITTING OR REMOVING THE DISC.

1. Slide the disc guard over the end of the grinder as shown.
2. Rotate the guard to the required position and secure by tightening the screw into the square nut until the guard is clamped in place.

The guard should be fitted to give maximum protection from the disc when fitted in the working position.

FITTING/REMOVING THE DISC

Ensure the disc guard is correctly fitted before installing the disc.



1. Press and hold the spindle lock button.

- You may need to turn the spindle by hand to fully engage the spindle lock.

2. Use the pin spanner supplied to loosen & remove the outer flange.
3. Ensure the inner flange is fitted correctly with the raised circular section pointing outwards and the flat section on the opposite side engages with the flat section on the spindle.
4. Place the grinding disc over the spindle to sit on the inner flange.

- If the grinding wheel supplied is a 'Depressed Centre' type. Mount it as shown, i.e. with the depressed centre (printed side) towards the machine.
- For standard discs, ensure the raised section of the outer flange is pointing towards the disc.

5. Screw on the outer flange with the centre boss facing inwards so as to sit inside the apperture of the disc. Tighten securely with the pin spanner.

- When using thin discs, the outer flange washer can be reversed so that the raised section is pointing away from the disc.

6. Press and hold the spindle lock and use the pin spanner to tighten the outer flange. Care should be taken also NOT to overtighten the outer flange.

FITTING THE SIDE HANDLE

1. Fit the side handle by screwing it into the threaded hole on either left or right hand side of the angle grinder.

OPERATION

WARNING: FRAGMENTS FROM A BROKEN/DETACHED DISC CAN CAUSE SERIOUS INJURY. ALWAYS WEAR SUITABLE EYE & FACE PROTECTION.
WARNING: WHEN USING CUTTING DISCS, DO NOT STAND DIRECTLY IN LINE WITH THE ROTATING DISC.
WARNING: DO NOT PUT SIDEWAYS PRESSURE ON CUTTING DISCS.
WARNING: ENSURE THAT THE WORKING POSITION ADOPTED DOES NOT CAUSE OPERATOR FATIGUE WHICH MAY LEAD TO LOSS OF CONTROL OF THE CUTTING DISC.
WARNING: ENSURE THE INTENDED CUTTING PATH IS CLEAR AND WITH SUFFICIENT CLEARANCE BETWEEN THE GRINDER & SURROUNDING OBJECTS.
WARNING: WHEN CUTTING, KEEP THE ANGLE GRINDER STRAIGHT TO PREVENT SNATCHING OR JAMMING.

THE ON/OFF SWITCH

1. To start the angle grinder, depress the trigger safety lock button (1) before squeezing the trigger (2).
- The disc will start instantly. Always maintain a firm grip with both hands.
2. To stop the angle grinder, release the trigger.

WARNING: THE DISC WILL CONTINUE TO ROTATE FOR A FEW SECONDS AFTER THE TRIGGER HAS BEEN RELEASED.

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CUTTING TIPS

- Do not force the disc through the material. Work with a feed rate that is suited to the material being cut.
- Do not subject the cutting disc to sideways pressure.
- The direction of the cutting motion is important. Always feed the cutting disc into the work so that it cuts in an upward direction. If you do not do this It can result in the disc climbing out of the cut in an uncontrolled manner and may lead to loss of control or serious injury.
- Whenever a new disc has been fitted, always run the grinder at no load speed to check for irregularities before beginning work.

GRINDING TIPS

WARNING: WHEN GRINDING, ONLY USE DISCS SPECIFICALLY DESIGNED FOR GRINDING. YOU MUST NEVER USE CUTTING DISCS TO GRIND ANY MATERIAL.

- The key to efficient grinding is to control the pressure and surface contact between the grinding disc and the workpiece.
- Flat surfaces are ground at an acute angle, usually 15 to 30 degrees to the workpiece. Too great an angle causes concentration of pressure on a small area which may gouge or burn the workpiece.
- Allow the disc to reach full speed before grinding.
- Avoid overloading the angle grinder. If it becomes hot when being used, allow it to run for a few minutes under no-load conditions.

MAINTENANCE

Before commencing any maintenance procedures, always ensure the grinder is isolated from the electrical supply by switching off and removing the plug from the power socket.

BEFORE USE

1. Always inspect the tool before use and ensure it is in top condition.
2. Ensure all fixing screws remain tight to ensure the grinder is in safe working condition.
3. Ensure the grinding wheel or cutting disc is perfectly sound, free from cracks or damage.
4. Inspect the power cable to ensure it is sound and free from cracks or bare wires etc.

CLEANING

1. Ensure all air ventilation slots are clear, (Use compressed air to clean the machine if possible. Always wear protective goggles when cleaning with compressed air).
2. Clean the exterior of the machine with a soft cleaning cloth. Never use any chemicals or harsh abrasives. Avoid using solvents when cleaning plastic parts, which may be susceptible to damage from various types of commercial solvents.

GENERAL MAINTENANCE

- All bearings etc, in this tool are lubricated with a sufficient amount of high grade lubricant for the tools lifetime under normal operating conditions, therefore no further lubrication is necessary.
- Refer to your CLARKE dealer if internal maintenance is required.

FAULT FINDING

Problem	Possible Cause	Remedy
Tool will not operate.	1. No power supply. 2. Switch is faulty. 3. Fuse blown. 4. Motor is faulty.	1. Check supply and rectify as necessary. 2. Consult your Clarke dealer. 3. Check and replace if necessary. 4. Consult your Clarke dealer.
Motor runs but disc does not rotate.	1. Flange fastening not tight. 2. Drive gear broken.	1. Tighten flange nut. 2. Consult your Clarke dealer.
Heavy internal sparking.	1. Faulty motor.	1. Consult your Clarke dealer.
Motor becomes hot.	1. Unduly heavy use. 2. Air vents have become blocked. 3. Low supply voltage.	1. Reduce the force applied to the tool. Let the tool do the work. 2. Clean out the air vents using compressed air or clean with a dry cloth. 3. Ensure supply voltage is correct. If an extension cable is used, ensure it is of the correct rating and is fully unwound.
Excessive vibration.	1. Disc not mounted correctly 2. Machine bearings worn.	1. Check and rectify. 2. Consult your Clarke dealer.

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CONSUMABLE SPARE PARTS

Replacement cutting/grinding discs are available from your CLARKE dealer. Refer to your Clarke dealer or service department if internal maintenance is required.

Replacement abrasive, cutting and grinding discs include:

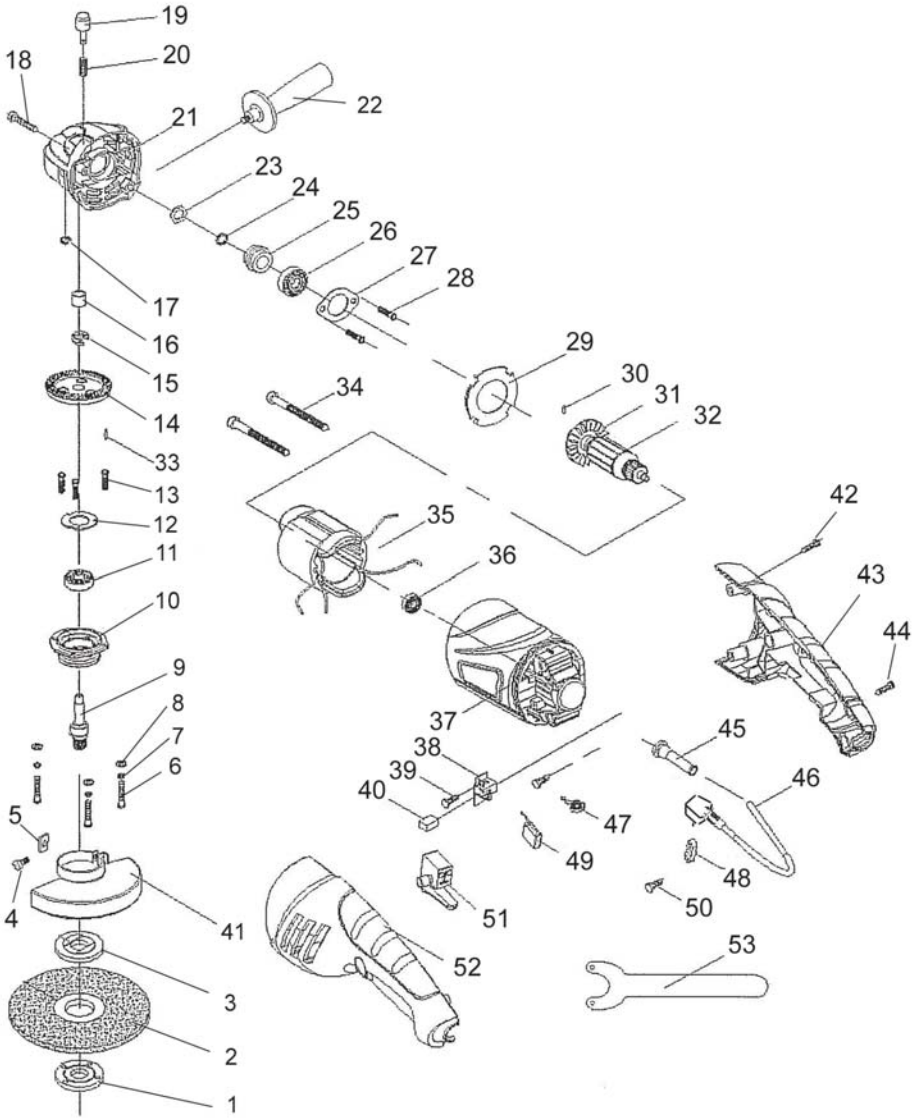
Metal Grinding Discs:	115 mm dia	Part No: 6470705
Metal Cutting Discs:	115 mm dia	Part No: 6470775
Masonry Cutting Discs:	115 mm dia	Part No: 6470735
Plasma Fine Cut Cutting Discs: (Model PD1)	115 mm dia	Part No: 3052050

SPECIFICATION

Item	Specification
Spindle Thread Size	M14
Nominal Disc Diameter	115 mm
Spindle Speed (no load)	11500 rpm
Weight	2.3 kg
Dimensions (Length x Width x Height)	362 x 137 x 105 mm
Operating Voltage & Frequency	230 V/ 50 Hz
Fuse Rating	13 A
Motor Power	1050 W
Vibration (front handle)	24.44 m^2
Sound Pressure Level	93.0 dB LWA
Guaranteed Sound Power	104 dB LWA

Please note that the details and specifications contained herein, are correct at the time of going to print. However, CLARKE International reserve the right to change specifications at any time without prior notice.

PARTS DIAGRAM



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PARTS LIST

No	Part No	Description
1	WGCON105001	Outer Flange
2	See page 14	Cutting/Grinding Disc
3	WGCON105003	Inner Flange
4	WGCON105004	Clamp Screw
5	WGCON105005	Square Clamp Nut
6	WGCON105006	Machine Screw
7	WGCON105007	Spring Washer
8	WGCON105008	Flat Washer
9	WGCON105009	Spindle
10	WGCON105010	Spindle Housing
11	WGCON105011	Bearing
12	WGCON105012	Bearing Platen
13	WGCON105013	Screw
14	WGCON105014	Drive Gear
15	WGCON105015	Circlip
16	WGCON105016	Bush
17	WGCON105017	Spring
18	WGCON105018	Machine Screw
19	WGCON105019	Spindle Lock Button
20	WGCON105020	Lock Peg
21	WGCON105021	Drive Housing
22	WGCON105022	Side Handle
23	WGCON105023	Nut
24	WGCON105024	Spring Washer
25	WGCON105025	Spur Gear
26	WGCON105026	Bearing
27	WGCON105027	Gasket

No	Part No	Description
28	WGCON105028	Screw
29	WGCON105029	Retaining Plate
30	WGCON105030	Round Pin
31	WGCON105031	Motor Fan
32	WGCON105032	Motor Armature
33	WGCON105033	N/a
34	WGCON105034	Housing Screw
35	WGCON105035	Motor Stator
36	WGCON105036	Motor Bearing
37	WGCON105037	Motor Housing
38	WGCON105038	Brush Holder
39	WGCON105039	Screw
40	WGCON105040	Carbon Brush
41	WGCON105041	Disc Guard
42	WGCON105042	Housing Screw (F)
43	WGCON105043	Rear Casing (RH)
44	WGCON105044	Housing Screw (R)
45	WGCON105045	Cable Entry
46	WGCON105046	Power Cable
47	WGCON105047	Spring
48	WGCON105048	Cable Clamp
49	WGCON105049	Capacitor
50	WGCON105050	Screw
51	WGCON105051	Trigger Assembly
52	WGCON105052	Rear Casing (LH)
53	WGCON105053	Pin Wrench

VIBRATION EMISSIONS

HAND-ARM VIBRATION

Employers are advised to refer to the HSE publication "Guide for Employers".

All hand held power tools vibrate to some extent, and this vibration is transmitted to the operator via the handle, or hand used to steady the tool. Vibration from about 2 to 1500 Hertz is potentially damaging and is most hazardous in the range from about 5 to 20 Hertz.

Operators who are regularly exposed to vibration may suffer from Hand Arm Vibration Syndrome (HAVS), which includes `dead hand', `dead finger', and `white finger'. These are painful conditions and are widespread in industries where vibrating tools are used.

The health risk depends upon the vibration level and the length of time of exposure to it……in effect, a daily vibration dose.

Tools are tested using specialised equipment, to approximate the vibration level generated under normal, acceptable operating conditions for the tool in question. For example, a grinder used at 45° on mild steel plate, or a sander on softwood in a horizontal plane etc.

These tests produce a value`*a*', expressed in metres per second per second, which represents the average vibration level of all tests taken, in three axes where necessary, and a second figure `K', which represents the uncertainty factor, i.e. a value in excess of `a', to which the tool could vibrate under normal conditions. These values appear in the specification panel below.

MODEL No:	**CON1050**
DESCRIPTION:	**1050W ANGLE GRINDER**

Declared vibration emission value in accordance with EN12096

Measured vibration emission value - *a:* 24.44m/s^2

Uncertainty value - *K:* 1.5m/s^2

Values determined according to EN28622-1

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You will note that a third value is given in the specification - the highest measured reading in a single plane. This is the maximum level of vibration measured during testing in one of the axes, and this should also be taken into account when making a risk assessment.

`*a*' values in excess of 2.5 m/s^2 are considered hazardous when used for prolonged periods. A tool with a vibration value of 2.8 m/s^2 may be used for up to 8 hours (cumulative) per day, whereas a tool with a value of 11.2 m/s^2 may be used for ½ hour per day only.

The graph below shows the vibration value against the maximum time the respective tool may be used, per day.

The uncertainty factor should also be taken into account when assessing a risk. The two figures `*a*' and `*K*' may be added together and the resultant value used to assess the risk.

It should be noted that if a tool is used under abnormal, or unusual conditions, then the vibration level could possibly increase significantly. Users must always take this into account and make their own risk assessment, using the graph above as a reference.

Some tools with a high vibration value, such as impact wrenches, are generally used for a few seconds at a time, therefore the cumulative time may only be in the order of a few minutes per day. Nevertheless, the cumulative effect, particularly when added to that of other hand held power tools that may be used, must always be taken into account when the total daily dose rate is determined.

DECLARATION OF CONFORMITY

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INTERNATIONAL

Hemnall Street Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following directive(s):

2004/108/EC Electromagnetic Compatibility Directive.

2006/42/EC Machinery Directive.

2006/95/EC Low Voltage Equipment Directive.

2002/95/EC Restriction of Hazardous substances.

The following standards have been applied to the product(s):

EN 60745-1:2006, EN 60745-2-3:2007, EN55014-1:2006, EN 55014-2:1997+A1

EN 61000-3-2:2006, EN 61000-3-3:1995+A1+A2.

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in 2008

Product Description:	1050W Angle Grinder (115mm)
Model number(s):	CON1050
Serial / batch Number:	N/A
Date of Issue:	18/04/2011

Signed:

J.A. Clarke
Director

IC 3015 Angle Grinder DOC (rev2) Page 1 of 1

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